

Preparation of B-29 Lys modified insulin using proinsulins

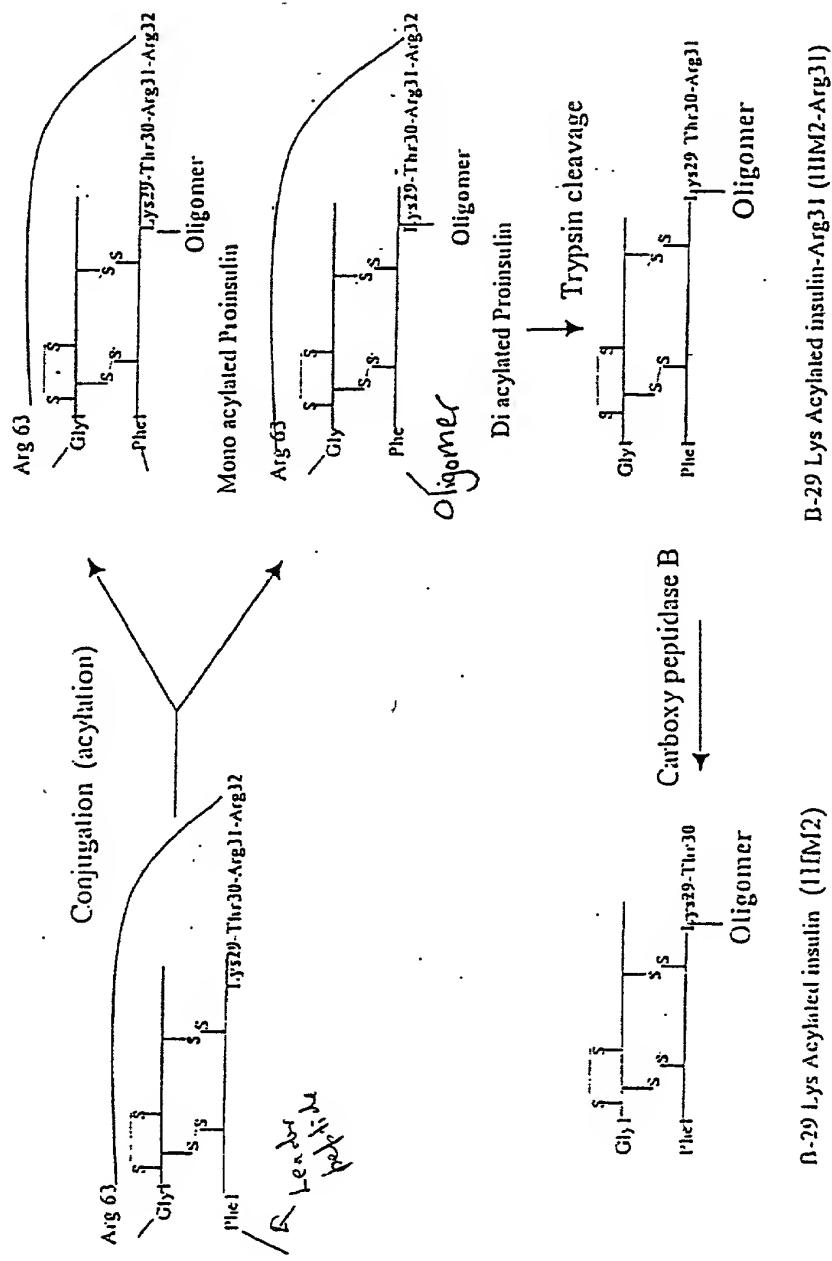


Figure 1

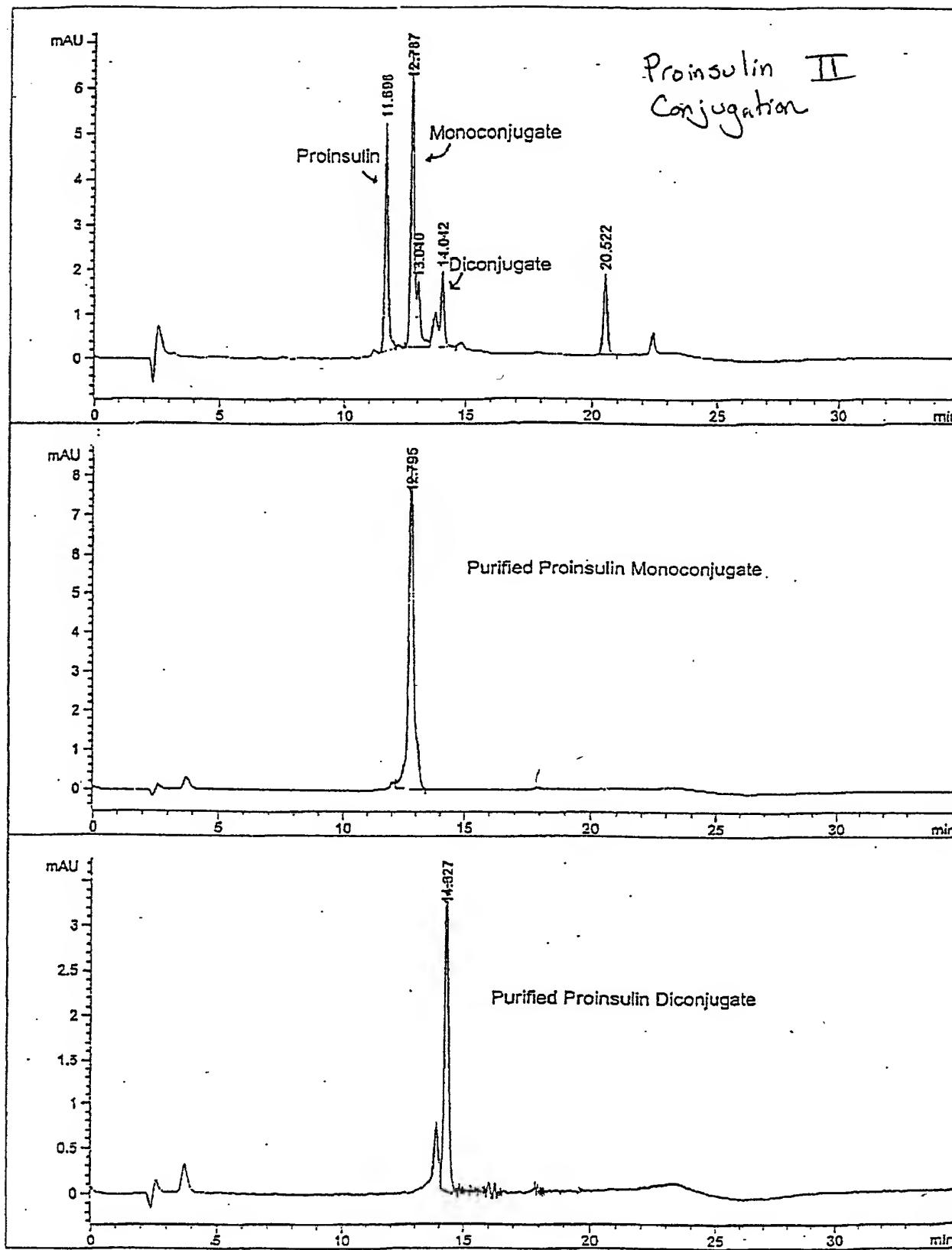


Figure 2

Purified Proinsulin II Monoconjugate

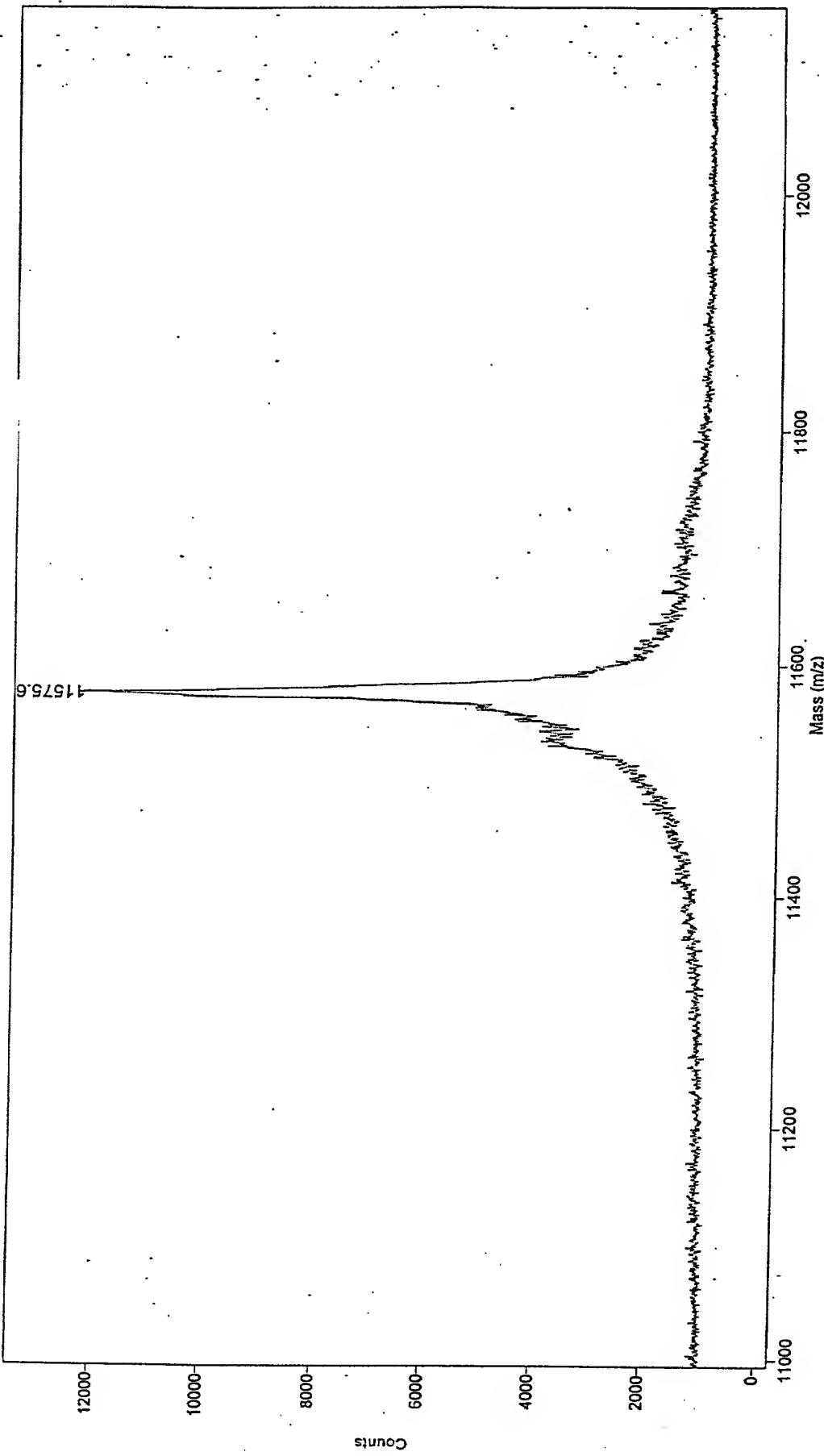


Figure 3

Purified Proinsulin II Diconjugate

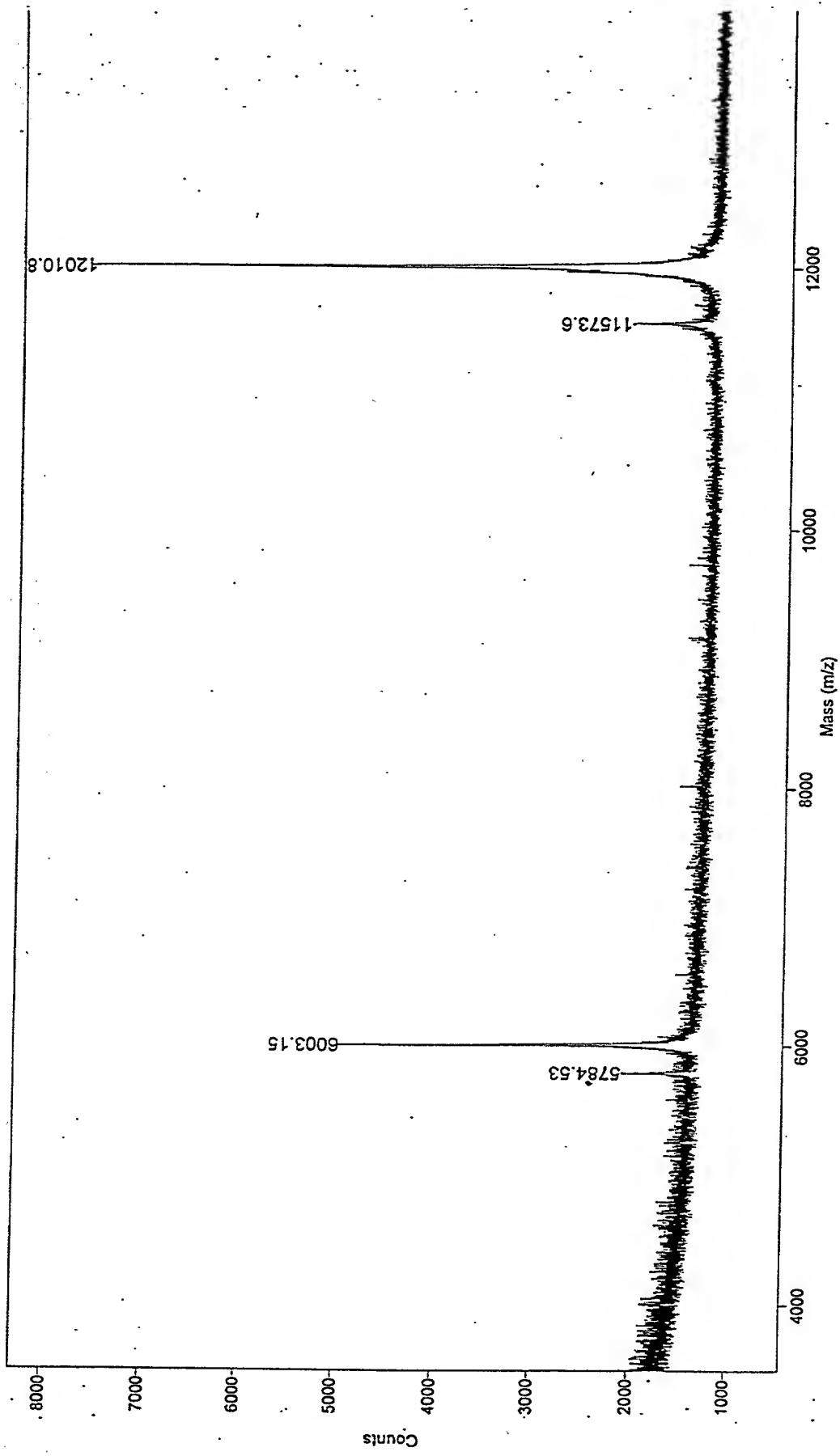
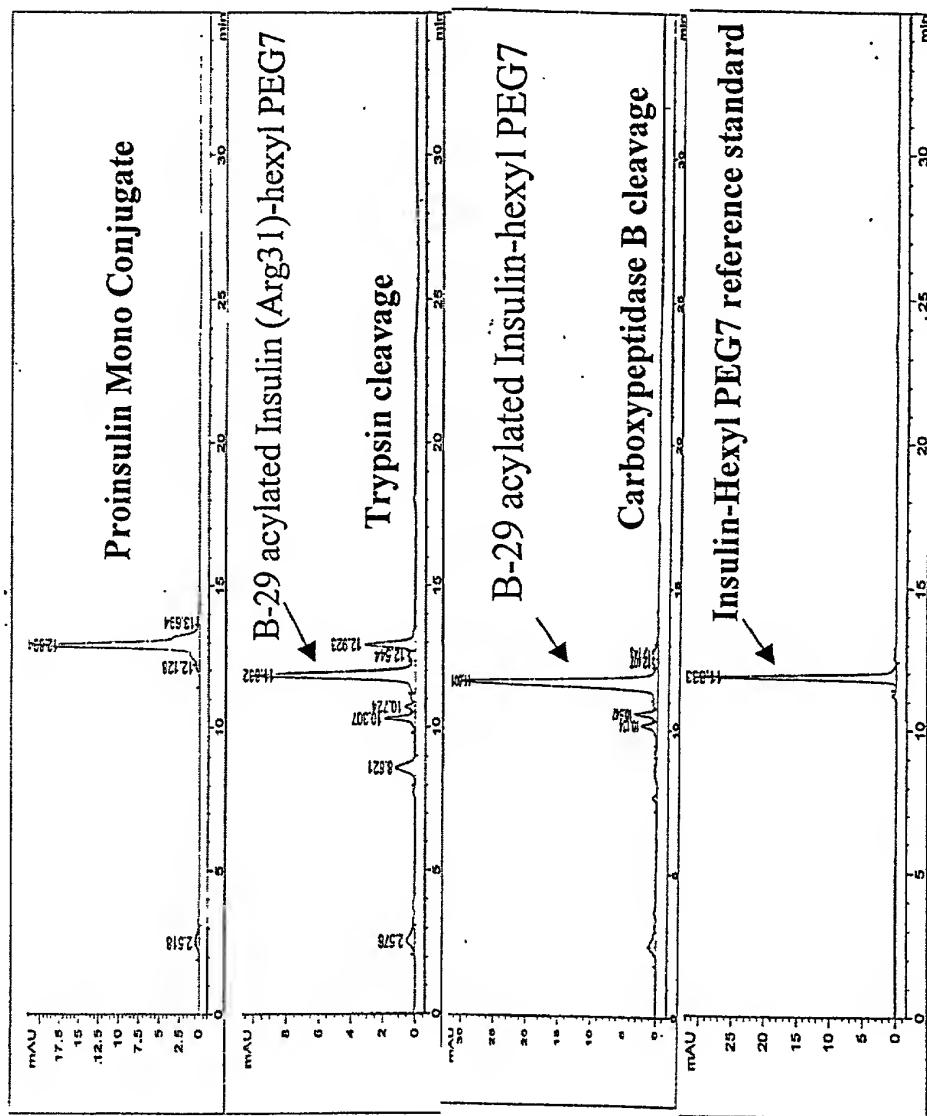


Figure 4

Figure 5



Product of Trypsin Cleavage of  
Proinsulin II Monoconjugate

B-29 acylated Insulin ( $\text{arg}^{31}$ ) hexyl-PEG7

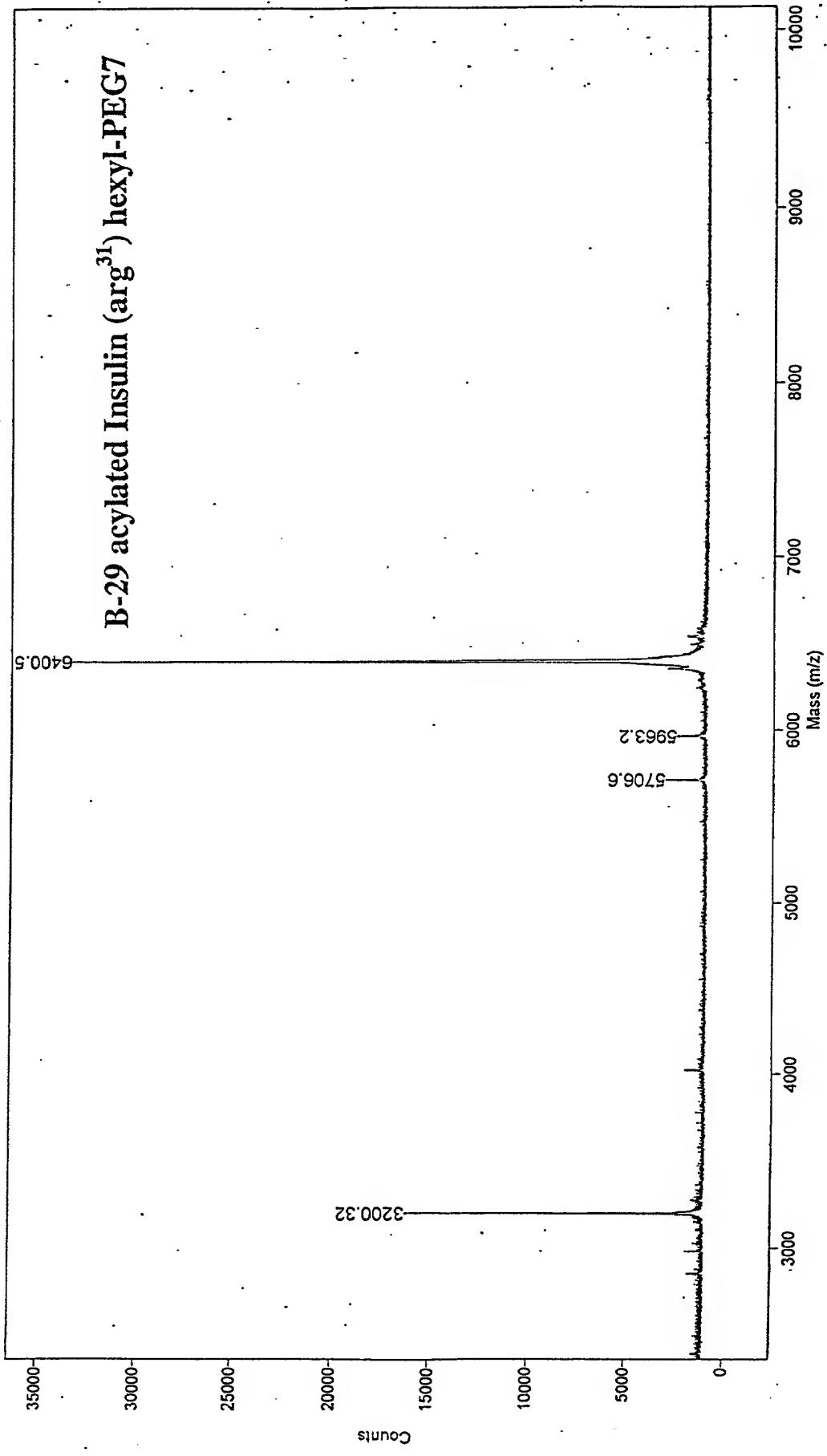


Figure 6

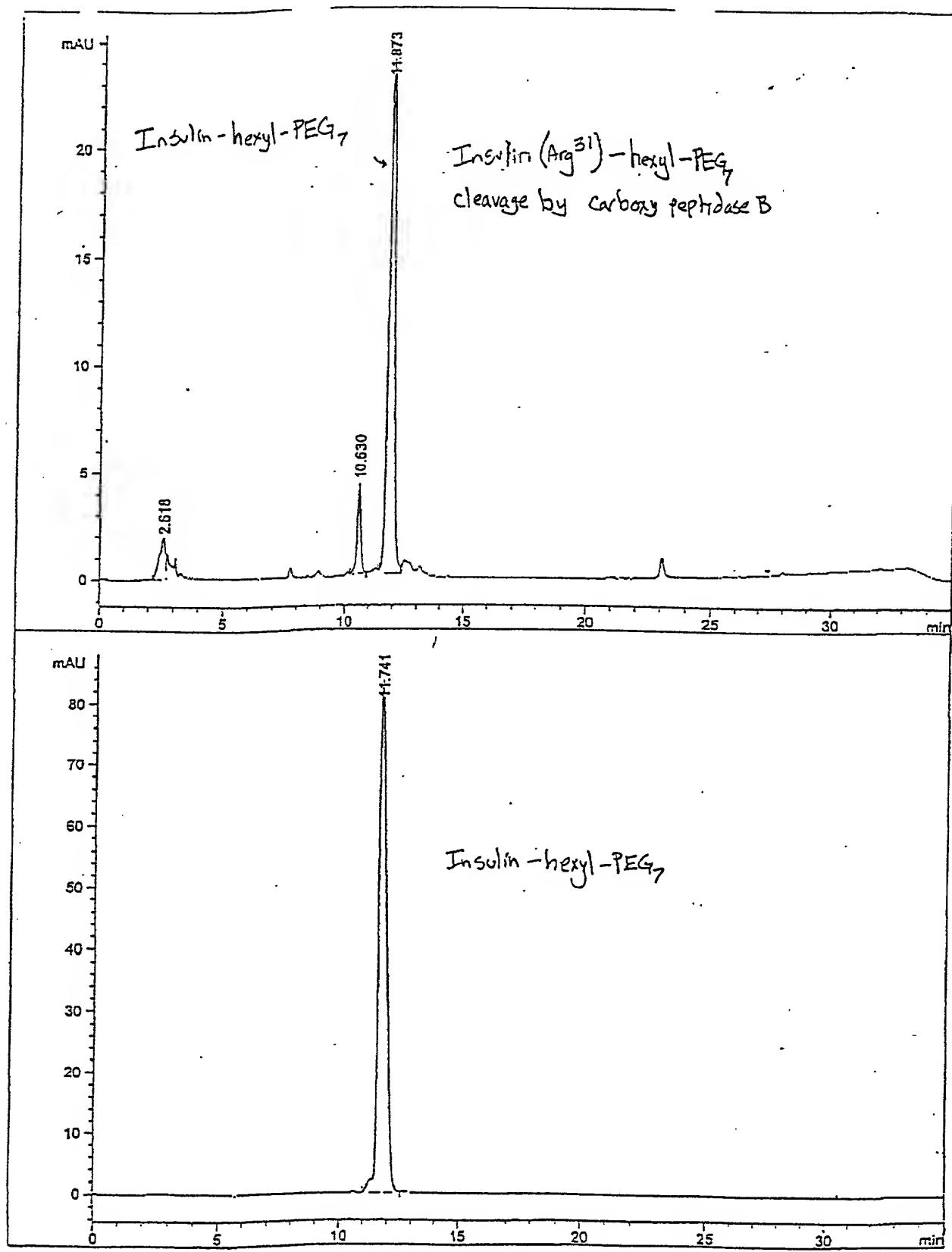


Figure 7

TOF MASS FINGERPRINT

Product of Carboxypeptidase B Cleavage  
of B-29 acylated Insulin ( $\text{arg}^{31}$ ) hexyl-PEG7

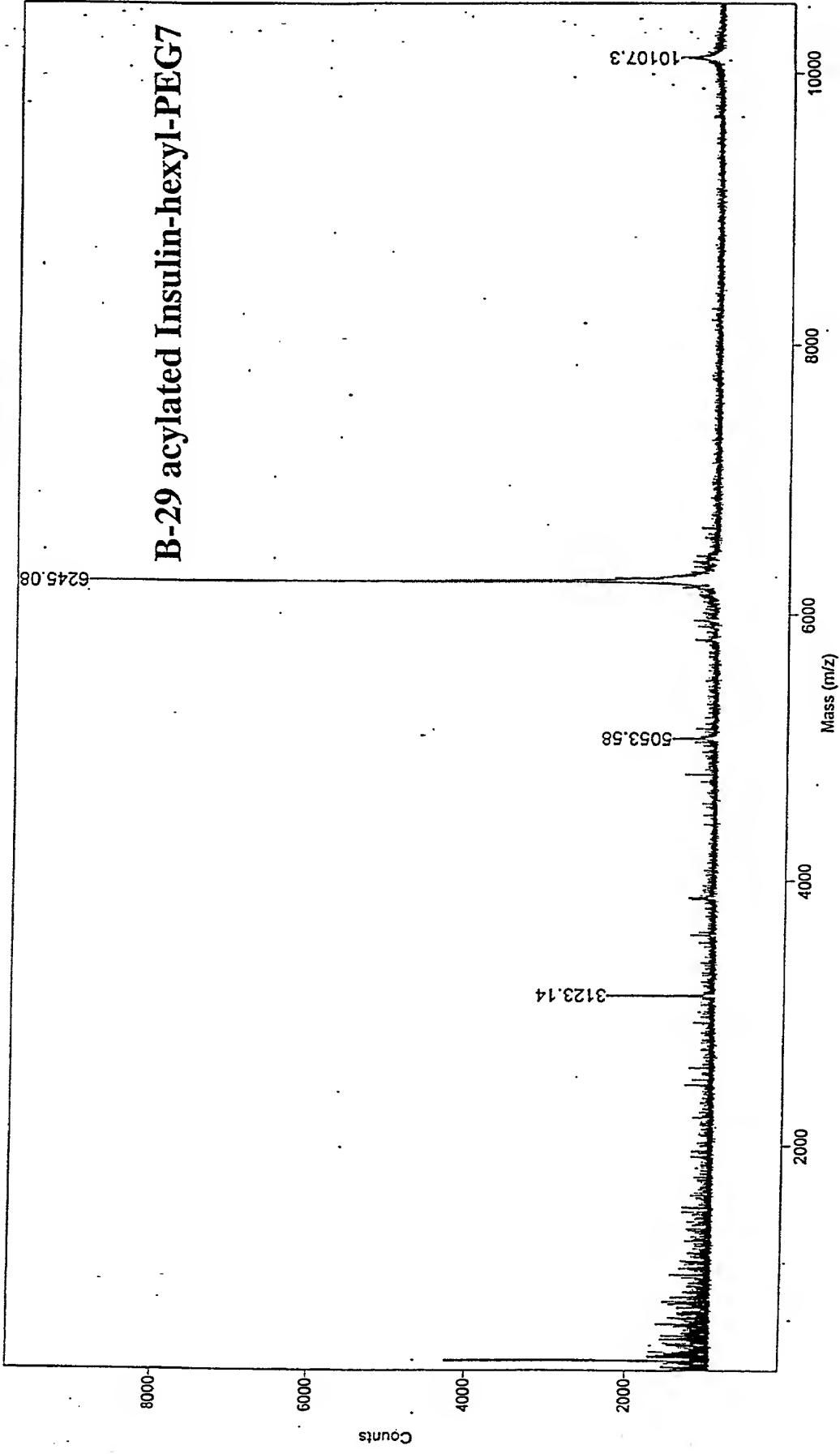


Figure 8

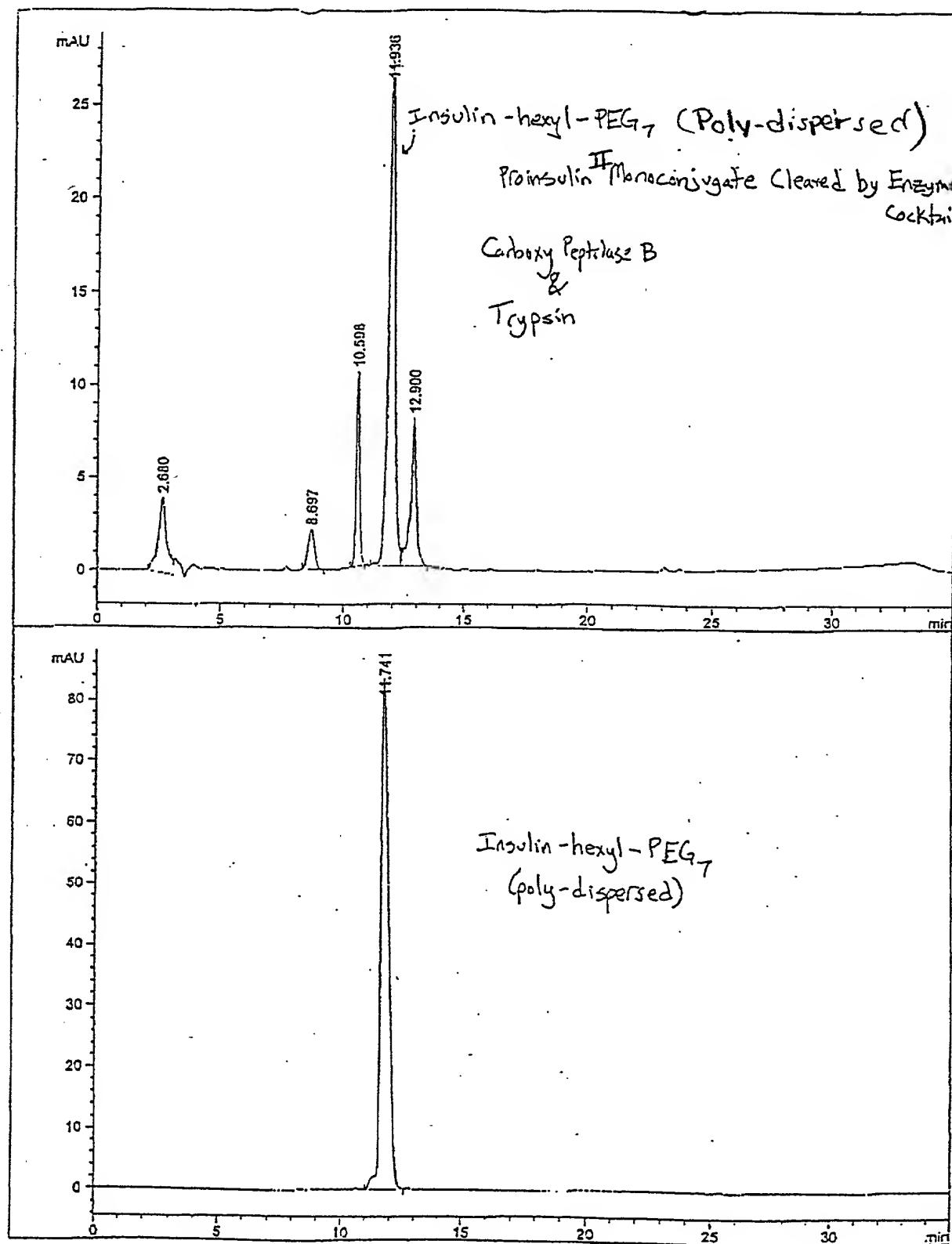
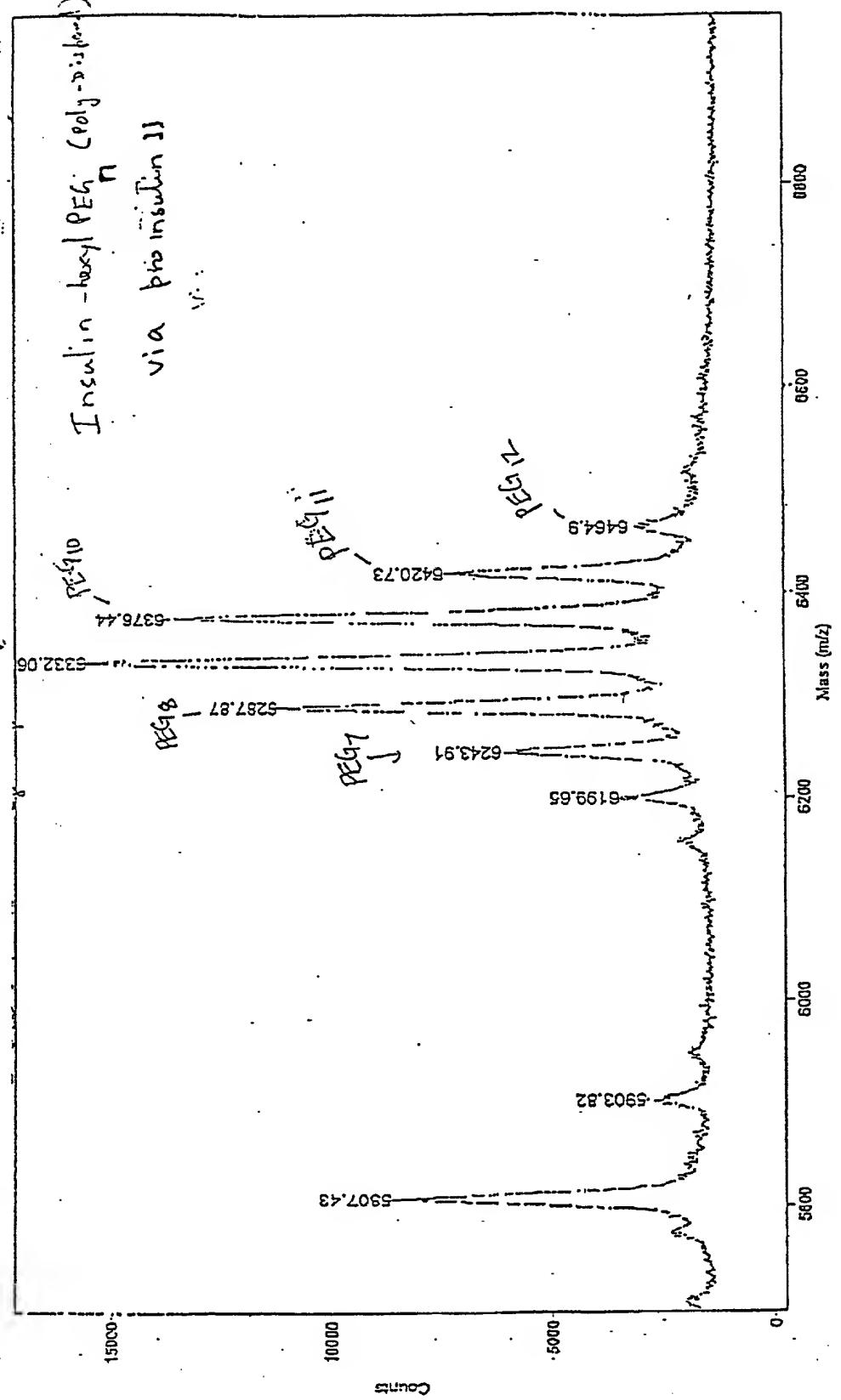


Figure 9

Figure 10



# HPLC Profile of Production of B-29 acylated Insulin-hexyl PEG7 Via Proinsulin I

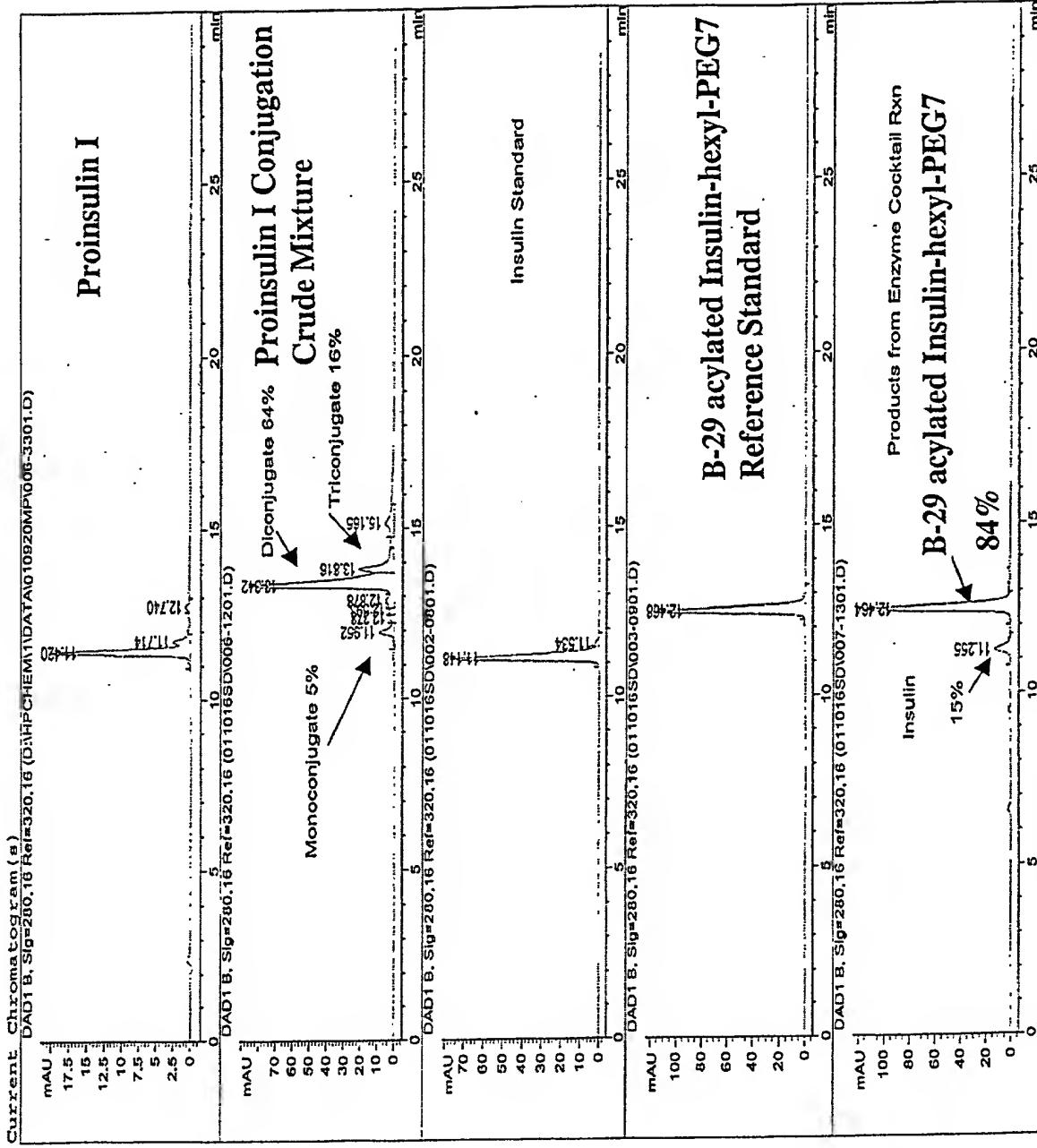
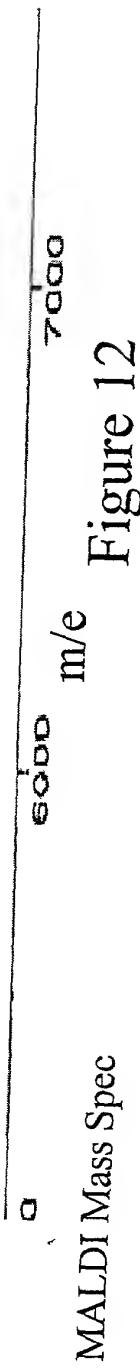


Figure 11

Mass Spectrum of B-29 Acylated Insulin-hexyl PEG<sup>7</sup>  
via Proinsulin I

B-29 acylated Insulin-hexyl PEG<sup>7</sup> Derived From  
Cleavage of Proinsulin Conjugate mixture



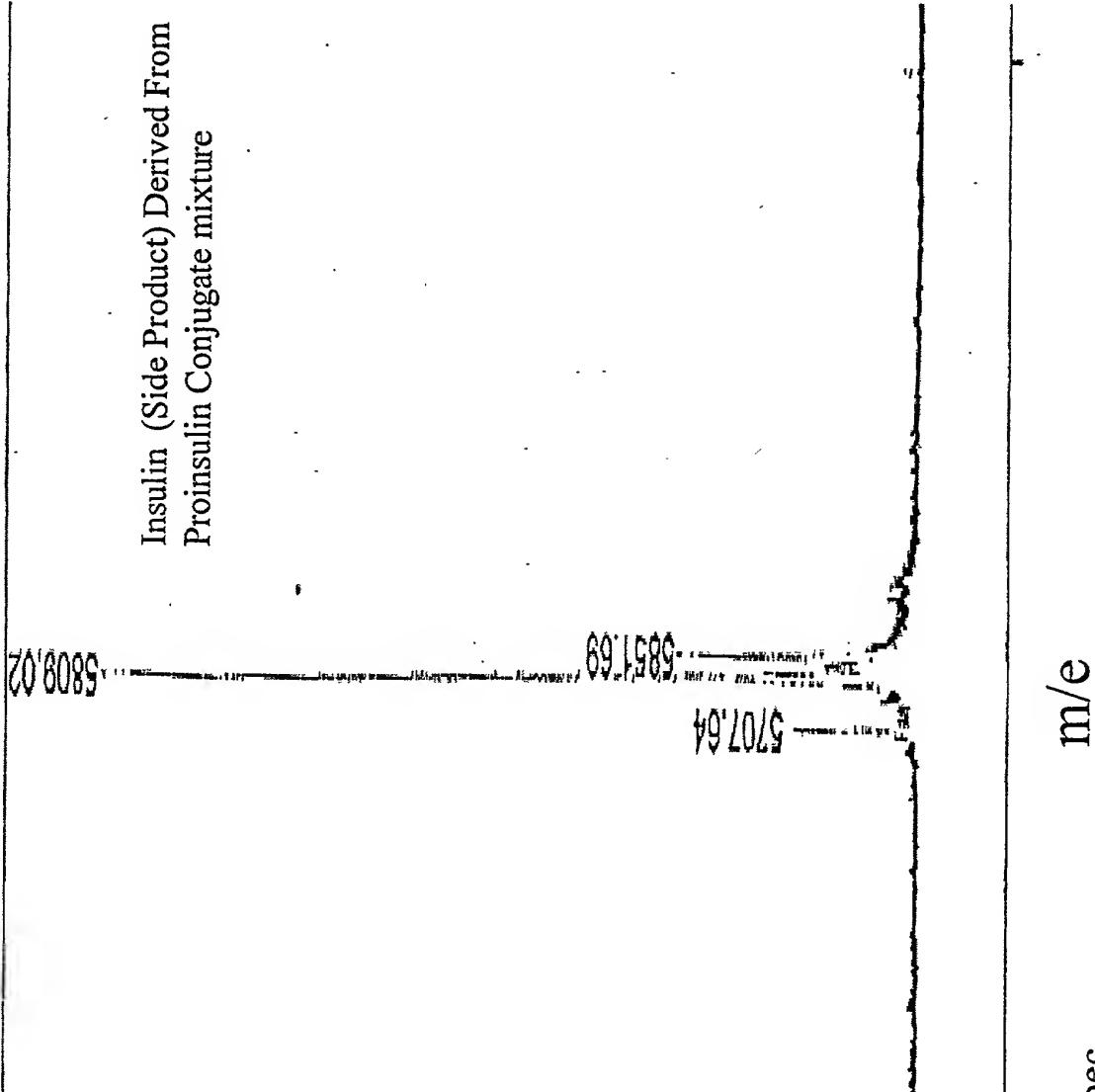
MALDI Mass Spec

Figure 12

Hewlett-Packard 5890A GPC

# Mass Spectrum of Insulin via Proinsulin I

Insulin (Side Product) Derived From  
Proinsulin Conjugate mixture



MALDI Mass Spec

Figure 13

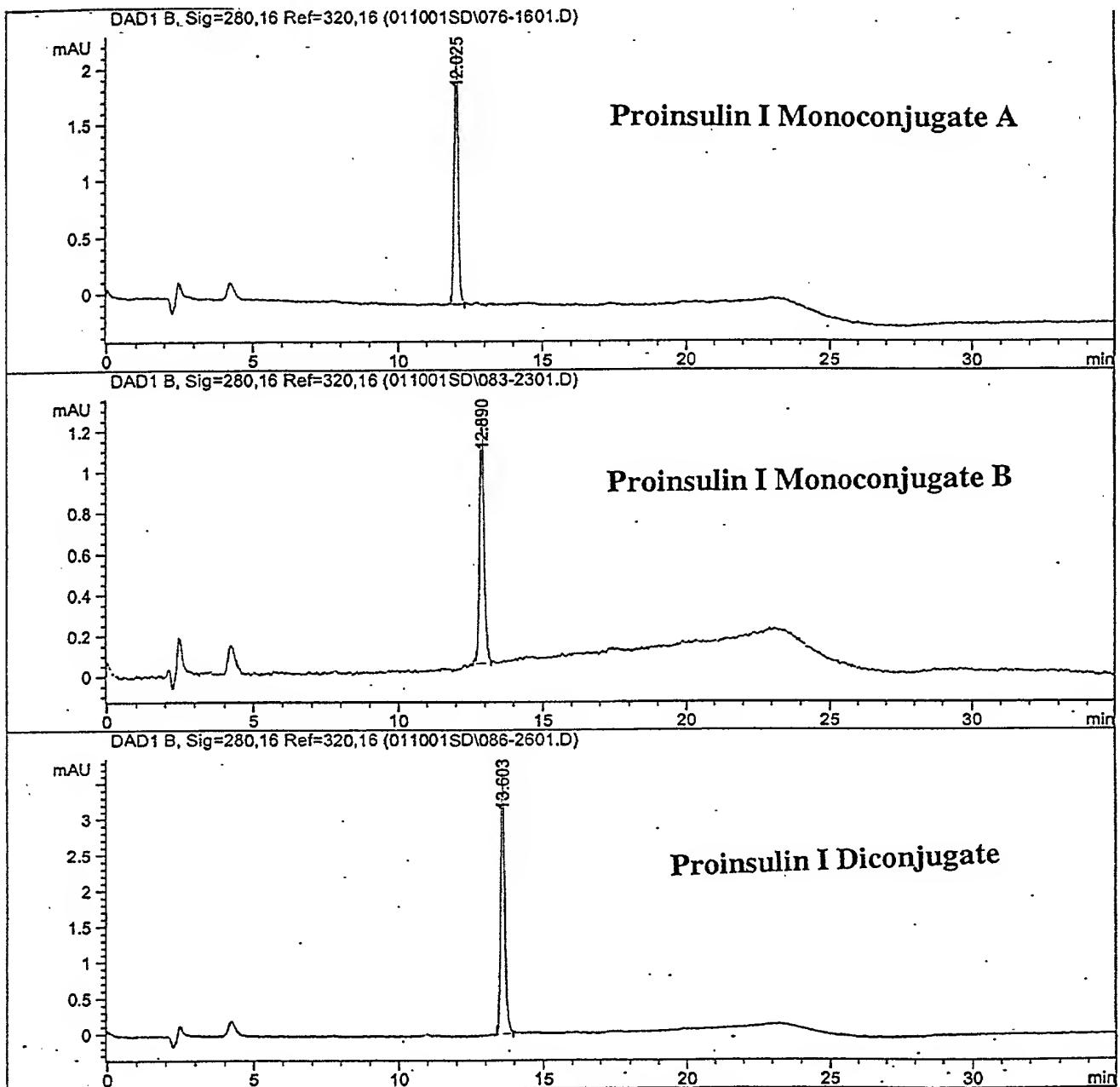
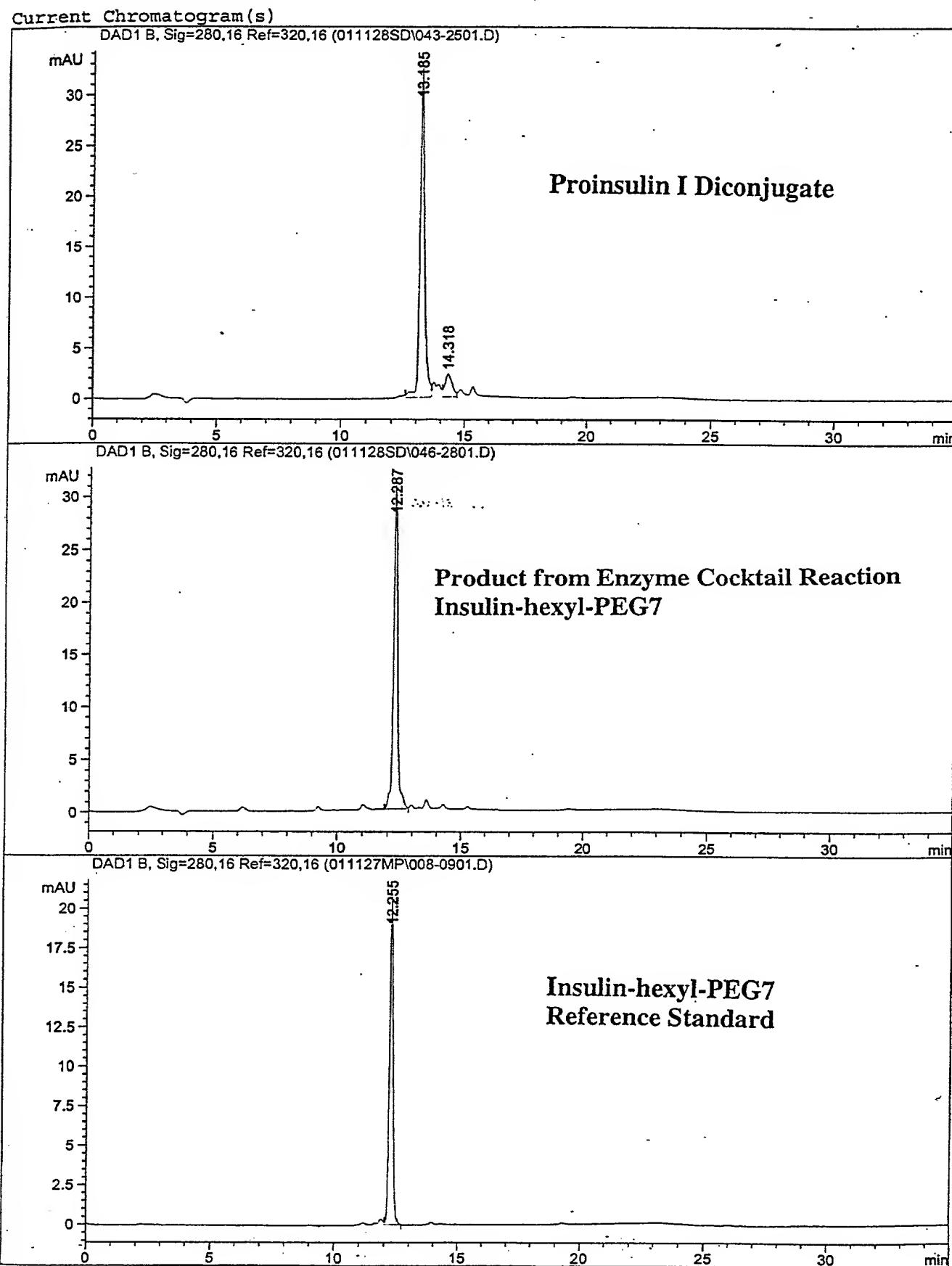


Figure 14

nt of window 38: Current Chromatogram(s)



Current Chromatogram(s)

DAD1 B, Sig=280,16 Ref=320,16 (011128SD\035-1701.D)

